### **ENVIRONMENTAL CHEMISTS**

Date of Report: December 19, 1995 Date Received: December 7, 1995

Project: Metro Self Monitor, PO #M51573 Date Samples Extracted: December 14, 1995 Date Extracts Analyzed: December 18, 1995

# RESULTS FROM THE ANALYSIS OF THE PROCESS WATER SAMPLE FOR CHROMIUM, COPPER, NICKEL, ZINC

Samples Processed Using Method 3005 Results Reported as mg/L (ppm)

Sample ID	<u>Chromium</u>	Copper	<u>Nickel</u>	<u>Zinc</u>
M51573	0.78	0.62	0.42	0.06
Method Blank	<0.05	< 0.05	<0.05	<0.05

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# QUALITY ASSURANCE RESULTS FOR CHROMIUM, COPPER, NICKEL, AND ZINC

Laboratory Code: 64664 (Duplicate)

			<b>n</b> 1:	Relative	
Analyte:	Reporting Units	Sample Result	Duplicate Result	Percent Difference	Acceptance <u>Criteria</u>
<b>O</b> 1		A =0	0.00		
Chromiun		0.78	0.82	b	0-20
Copper	mg/L (ppm)	0.62	0.63	2	0-20
Nickel	mg/L (ppm)	0.42	0.44	5	0-20
Zinc	mg/L (ppm)	0.06	0.05	18	0-20

Laboratory Code: 64664 (Matrix Spike)

	Reporting	Spike	Sample	% Rec	covery	Acceptance	Percent
Analyte:	Units	Level	Result	MS	MSD	Criteria	Difference
Chromium	mg/L (ppm)	5	0.78	92	93	80-120	1
Copper	mg/L (ppm)	5	0.62	91	90	80-120	1
Nickel	mg/L (ppm)	10	0.42	91	92	80-120	1
Zinc	mg/L (ppm)	5	0.06	93	93	80-120	0

Laboratory Code: Spike Blank

	Reporting	Spike	% Recovery	Acceptance
Analyte:	Units	Level	MS	Criteria
	HARRIE A			
Chromium	mg/L (ppm)	5	102	80-120
Copper	mg/L (ppm)	5	104	80-120
Nickel	mg/L (ppm)	10	102	80-120
Zinc	mg/L (ppm)	5	100	80-120

FRIEDMAN & BRUYA, INC. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282

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# SAMPLE CHAIN OF CUSTODY

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City, State, Zip Seat	He un	58174	MT UNIVERSAL			
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72,78		METRO I	= Sel	fmontor 1	N 51573	
SAMPLERS (signature)					PROJECT LOCAT	ION
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#### **ENVIRONMENTAL CHEMISTS**

Andrew John Friedman James E. Bruya, Ph.D. (206) 285-8282 3012 16th Avenue West Seattle, WA 98119-2029 FAX: (206) 283-5044

December 19, 1995

Gerry Thompson, Project Leader Alaskan Copper Works 628 South Hanford Seattle, WA 98134

Dear Mr. Thompson:

Enclosed are the results from the testing of material submitted on December 7, 1995 from your Metro Self Monitor, PO #M51573 project.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Kurt Johnson Chemist

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Enclosures

FAX: 382-7335 ACU1219R.DOC

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Andrew John Friedman James E. Bruya, Ph.D. (206) 285-8282 3012 16th Avenue West Seattle, WA 98119-2029 FAX: (206) 283-5044

December 19, 1995

## INVOICE # 95ACU1219-1 DUPLICATE COPY

Accounts Payable Alaskan Copper Works 628 South Hanford Seattle, WA 98134

RE: Project Metro Self Monitor, PO #M51573: Results of testing requested by Gerry Thompson, Project Leader for material submitted on December 7, 1995.